

BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 7]

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1. The average marks of 9 students in a test is 74. If one student's marks were wrongly recorded as 86 instead of 56, what is the correct average?

- a. 70
- b. 71
- c. 72
- d. 73

2. An article is sold for ₹1,800 at a profit of 20%. What is its cost price?

- a. ₹1,400
- b. ₹1,500
- c. ₹1,600
- d. ₹1,650

3. A basket contains apples and oranges in a 3:5 ratio. Given that there are 40 oranges, what is the number of apples?

- a. 18
- b. 24
- c. 30
- d. 32

4. A car travels at a speed of 54 km/h. What is its speed in m/s?

- a. 15 m/s
- b. 12 m/s
- c. 18 m/s
- d. 13.5 m/s

5. The perimeter of a square is 96 cm. What is its area?

- a. 484 sq cm
- b. 576 sq cm

- c. 600 sq cm
- d. 625 sq cm

6. A group of six individuals has an average age of 30. A seventh person joins the group, causing the average age to increase to 32. Determine the age of the newest person in the group.

- a. 40 years
- b. 42 years
- c. 43 years
- d. 44 years

7. What is the cumulative percentage increase in a town's population after two years, given an initial 10% increase in the first year, followed by a 20% increase in the second year?

- a. 30%
- b. 32%
- c. 33%
- d. 34%

8. A single ball is randomly chosen from a container holding 4 red, 6 green, and 10 blue balls. Determine the probability of the selected ball being green.

- a. $\frac{3}{10}$
- b. $\frac{1}{5}$
- c. $\frac{2}{3}$
- d. $\frac{4}{5}$

9. A set of 12 numbers has an average of 45. When one number is taken out, the remaining 11 numbers average 43. Determine the value of the removed number.

- a. 59
- b. 65
- c. 69
- d. 71

10. A man saves 25% of his monthly income. If his savings are ₹7,500, what is his monthly income?

- a. ₹25,000

- b. ₹27,500
- c. ₹30,000
- d. ₹35,000

11. The completion time for a specific task is 15 days when performed by 8 workers. Determine the number of days required for 12 workers to finish the identical job.

- a. 8 days
- b. 9 days
- c. 10 days
- d. 12 days

12. Two numbers are in the ratio 4 : 9. If their sum is 260, what is the smaller number?

- a. 80
- b. 90
- c. 100
- d. 110

13. The cost price of an article is ₹500. It is sold at a profit of 15%. What is the selling price?

- a. ₹560
- b. ₹565
- c. ₹575
- d. ₹580

14. A train covers 300 km in 5 hours. How much distance will it cover in 8 hours at the same speed?

- a. 420 km
- b. 450 km
- c. 480 km
- d. 500 km

15. A person spent an average of ₹600 per day over 5 days. If the expenditure for one of those days was ₹800, calculate the average daily expenditure for the other 4 days.

- a. ₹525
- b. ₹550
- c. ₹575

d. ₹600

Answers

1. Correct Answer: C

$$\text{Wrong total} = 9 \times 74 = 666$$

$$\text{Extra added} = 86 - 56 = 30$$

$$\text{Correct total} = 666 - 30 = 636$$

$$\text{Average} = 636/9 = \mathbf{72}$$

2. Correct Answer: B

$$\text{SP} = 120\% \text{ of CP}$$

$$\text{CP} = 1800/120 \times 100 = \mathbf{₹1500}$$

3. Correct Answer: B

$$5 \text{ parts} = 40$$

$$1 \text{ part} = 8$$

$$\text{Apples} = 3 \times 8 = \mathbf{24}$$

4. Correct Answer: A

$$54 \times 5/18 = \mathbf{15 \text{ m/s}}$$

5. Correct Answer: B

$$\text{Side} = 96 \div 4 = 24$$

$$\text{Area} = 24 \times 24 = \mathbf{576 \text{ sq cm}}$$

6. Correct Answer: D

$$\text{Old total} = 6 \times 30 = 180$$

$$\text{New total} = 7 \times 32 = 224$$

$$\text{Age} = 224 - 180 = \mathbf{44 \text{ years}}$$

7. Correct Answer: B

$$\text{Net \%} = 10 + 20 + (10 \times 20)/100 = 30 + 2 = \mathbf{32\%}$$

8. Correct Answer: A

$$\text{Total balls} = 20$$

$$\text{Green} = 6$$

$$\text{Probability} = 6/20 = \mathbf{3/10}$$

9. Correct Answer: C

$$\text{Original total} = 12 \times 45 = 540$$

$$\text{New total} = 11 \times 43 = 473$$

$$\text{Removed number} = 540 - 473 = \mathbf{69}$$

10. Correct Answer: C

$$25\% = 7,500$$

$$\text{Income} = 7,500 \times 4 = \mathbf{₹30,000}$$

11. Correct Answer: C

$$8 \times 15 = 12 \times x$$

$$x = \mathbf{10 \text{ days}}$$

12. Correct Answer: A

$$\text{Total parts} = 13$$

$$1 \text{ part} = 260/13 = 20$$

$$\text{Smaller} = 4 \times 20 = \mathbf{80}$$

13. Correct Answer: C

$$\text{SP} = 115\% \text{ of } 500 = \mathbf{₹575}$$

14. Correct Answer: C

$$\text{Speed} = 300/5 = 60 \text{ km/h}$$

$$\text{Distance in 8 hrs} = 60 \times 8 = \mathbf{480 \text{ km}}$$

15. Correct Answer: B

$$\text{Total} = 5 \times 600 = 3000$$

$$\text{Remaining} = 3000 - 800 = 2200$$

$$\text{Average} = 2200/4 = \mathbf{₹550}$$